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TITLE: SINTERED FRICTION MATERIAL
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ABSTRACT:

PURPOSE: To obtain strength endurable even for use under a heavy load by specifying both an outer and an inner peripheral part of a sliding surface in their density in copper series or iron series sintered friction material.

CONSTITUTION: Sintered friction material 10 used for the pad of a disc brake is formed in given dimensions, for instance a=80mm, b=50mm, c=10mm, by molding and sintering mixed powder composed of Cu, Sn, ZrO₂, Pb and graphite. In this case, two stage compression molding process is carried out so as to make the density of an inner peripheral part 14 have value from 4.2 to

5.0g/cm³ on judgment done from abrasion characteristics, friction characteristics and a crack due to a heavy load in consideration of difference in the density between an outer peripheral part 12 having a width from 2 to 10mm and the inner peripheral part 14, and the density of the outer peripheral part 12 have value from 5.2 to 6.0g/cm³ on the judgment done from rigidity, the crack due to heavy load, deposition on an opposite material, the friction characteristics, the abrasion characteristics and the abrasion of the opposite material. Thus strength endurable even for use under the heavy load can be obtained with no reduction in the friction characteristics and the abrasion one.

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